

ENF Environmental Notification Form

<i>For Office Use Only</i> <i>Executive Office of Environmental Affairs</i>	
EOEA No.:	<u>13245</u>
MEPA Analyst:	<u>Deirdre Buckley</u>
Phone: 617-626-	<u>1044</u>

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Holbrook Water Main Improvements		
Street: Centre St., Union St., W. Division St., N. Franklin St., Pine St., Plymouth St., Sycamore St., Weymouth St., Roseen Rd., Leatherchip Rd., S. Franklin St., South St., Spring St., High St., Johns Ave.		
Municipality: Holbrook	Watershed: MA Bay Watershed	
Universal Transverse Mercator Coordinates: 19 ⁰³ 33 ⁷⁴⁰ E, 46 70 ²¹⁷ N	Latitude: 42° 10' 5.87"N	Longitude: 71° 00' 45.06"W
Estimated commencement date: 04/01/05	Estimated completion date: 10/30/05	
Approximate cost: \$17,400,000	Status of project design: 80 %complete	
Proponent: Town of Holbrook, Dept. of Public Works		
Street: 50 North Franklin Street		
Municipality: Holbrook	State: MA	Zip Code: 02343
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Magdalena Lofstedt		
Firm/Agency: CDM Inc.	Street: 50 Hampshire Street	
Municipality: Cambridge	State: MA	Zip Code: 02139
Phone: (617) 452-6597	Fax: (617) 452-8597	E-mail: lofstedtmh@cdm.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?

Yes No

Has this project been filed with MEPA before?

Yes (EOEA No. _____) No

Has any project on this site been filed with MEPA before?

Yes (EOEA No. 6607) No

Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:

a Single EIR? (see 301 CMR 11.06(8)) Yes No

a Special Review Procedure? (see 301 CMR 11.09) Yes No

a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No

a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres):

SRF Funding of \$ 4.6 million for first 3 phases (Phases 4, 5, and A) in FY 2003. \$6.8 million for last 2 phases (Phases B and C) in FY 2004.

Are you requesting coordinated review with any other federal, state, regional, or local agency?

Yes (Specify _____) No

List Local or Federal Permits and Approvals: Order of Conditions from Holbrook Conservation Commission, ACOE PGP II Permit under Section 404 of the Clean Water Act, and NPDES General Permit.

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|--|---------------------------------------|--|
| <input checked="" type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits (including Legislative Approvals) – Specify:
Total site acreage	8.2 Ac.*			
New acres of land altered		2 Ac. of temp. alt.		
Acres of impervious area	6.2 Ac.	0	6.2 Ac.	
Square feet of new bordering vegetated wetlands alteration		30,160 sf		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	0	0	0	
Number of housing units	0	0	0	
Maximum height (in feet)	0	0	0	
TRANSPORTATION				
Vehicle trips per day	0	0	0	
Parking spaces	0	0	0	
WASTEWATER				
Gallons/day (GPD) of water use	4,500,000* *gpd	4,500,000 gpd	4,500,000 gpd	
GPD water withdrawal	1,000,000 gpd	0	1,000,000 gpd	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	6.4 miles	0.75 miles of new	7.15 miles	

*Total site acreage estimated as follows: For work in roadways, impacts were based on 6-foot wide trench widths. For work in cross-country areas, it is assumed that the work area will be 40 feet (out of which permanent easement will be 20 feet).
 **4.5mgd is the average day usage for both Holbrook and Randolph. Of this 4.5mgs, 3.5mgd is used by Randolph and 1mgd is used by Holbrook.

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

Yes (Specify Phase A only) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify _____) No See Figure 2

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify There is an ancient Native American archaeological site (MHC Site #19-NF-360) within a mile of the cross-country segment between West Division St. and Centre St in Phase A. MHC has requested that an intensive (locational) archaeological survey be conducted for the project, see letter in Attachment B.) No

_____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No To Be Determined

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify The installation of the replacement 12-inch water main within Pine Street under Phase A is adjacent to the Cranberry Brook Watershed Area of Critical Environmental Concern (ACEC). All work in this area will be confined to within the existing road rights-of-way.) No

_____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (*You may attach one additional page, if necessary.*)

(a) Description of the Project Site

The proposed Water Main Improvements Project in Holbrook consists of five (5) separate construction contracts, described below and in more detail in Attachment A, and shown on Figure 1. The project consists of installing app. 3,950 linear feet (0.75 miles) of new water mains, replacing app. 33,600 linear feet (6.4 miles) of water mains with larger size diameter pipe, and cleaning and lining of app. 11,500 linear feet of water main. These improvements will ensure future uninterrupted water service and improve drinking water quality by eliminating old unlined pipes prone to breaks and tuberculation, and looping existing dead ends.

Phase 4: This contract consists of replacing app. 3,250 linear feet of existing 6-inch pipe with new 12-inch ductile iron (DI) water mains within South Franklin Street and disconnecting approximately 160 services and 12 hydrants from an existing 6-inch water main on South Street and connecting them to an existing 12-inch water main on South Street.

Phase 5: This contract consists of replacing app. 800 linear feet of 6-inch pipe with new 8-inch DI water main on High Street and disconnecting approximately 30 services and 4 hydrants from an existing 6-inch water main on Spring Street and connecting them to an existing 10-inch water main on Spring Street.

Phase A: This contract consist of replacing app. 4,350 linear feet of 8-inch pipe and app. 8,500 linear feet of 6-inch pipe with new 12-inch DI water main from Centre Street to the two storage tanks on Sycamore Street and on North Franklin Street from the Braintree town line to Royal Avenue, and disconnecting approximately 23 services from an existing 6-inch water main on

Centre Street and connecting them to an existing 16-inch water main on Centre Street. The proposed project will have one short cross country reach (app. 1,400 linear feet) connecting Centre Street to West Division Street along the northern town line with Braintree that is critical to providing a redundant loop between the Town's booster station and the storage tanks.

Phase B: This contract includes a new loop in the distribution system between Leatherchip Road and Plymouth Street which will consist of app. 800 linear feet of new 12-inch DI water main to eliminate a dead end and provide a second new transmission main between the center of Town and the east side of Town where the storage tanks are located. This contract also includes replacement of app. 16,700 linear feet of existing old, tuberculated and undersized 8-inch (8,200 lf) and 6-inch (8,500 lf) water mains within South Franklin Street, Roseen Road, Leatherchip Road, Plymouth Street, and Sycamore Street, with new 12-inch DI water mains to meet the needed demand and fire flows.

Phase C: This contract consists of cleaning and lining app. 11,500 linear feet of an existing unlined, cast iron water main along Union, Plymouth, and Weymouth Streets.

(b) On-Site and Off-Site Alternatives

- 1) No action (i.e. continue to rely on the existing water distribution system) which does meet fire flow requirements and does not comply with the requirements of the ACO (ACO-NE-02-5001).
- 2) Alternative 1 is the preferred alternative which consists of installing the new 12-inch water main in a cross country easement paralleling the town line from Centre Street to West Divisions Street, described above.
- 3) Alternative 2 consists of installing the new 12-inch water main along an existing sewer easement from Centre Street in Braintree to the end of West Division Street. This alternative is approximately 1,300 feet longer than the preferred route and would therefore have higher construction costs. This alternative would also require legal permission from, and payments of damages to, Braintree to occupy the sewer easement for "water" purposes and an Inter-Municipal agreement to allow for the operation of a water main within Braintree. MHC may also require an intensive archaeological survey for this alternative if the new water main trench is determined to be outside of the area previously disturbed for sewer construction.
- 4) Alternative 3 also runs from Centre Street along an existing Holbrook sewer easement to Woodcliff Road. This route is 700 feet longer than the preferred route and would impact a substantial amount of low-lying wetlands associated with Tumbling Brook. Construction would be very difficult due to high groundwater and unstable organic soils. There would also be high risk to disturbing or damaging the existing sewer. Additionally, Holbrook would need legal permission, and payment of damages to property owners for use of a sewer easement for "water" purposes.

(c) On-site and Off-site Mitigation Measures

For every construction contract of the project, appropriate erosion and sedimentation control methods will be implemented prior to the commencement of construction, and will be kept in-place until the work area has been restored to pre-construction conditions. This will prevent the transport of sediment to nearby wetlands and waterways, and avoid environmental impacts associated with construction activities. Wetland alterations will be temporary and will result in no net loss of wetlands. Wetland topsoil will be stripped and segregated from subsoils during trenching. The trench will be backfilled with clean fill material (suitable subsoils excavated from the trench will be reused) to within 12-inches of the proposed final grades. The trench will be final graded with the native topsoils that were removed during trench excavation and seeded with a wetland seed mixture to stabilize the exposed soils. It is anticipated that the seedbank and viable roots of wetland plants within the topsoil will augment the wetland seed mix and help to establish a wetland plant community in the disturbed wetland area similar to pre-construction conditions. No long-term wetland impacts are anticipated.